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Total No. of Questions: [09]

Total No. of Printed Pages: 1

B. Tech. CSE (Semester – 7th)
TRAFFIC MANAGEMENT
Subject Code: BCIE01004
Paper ID: [18OE111132]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. What do you understand by level of service concept while deciding the design capacity of a road?
- b. What are the factors on which PCU value depend?
- c. Indicate the maximum dimensions and weight of vehicles allowed in India as specified by IRC.
- d. How would you describe the capacity of cycle track?
- e. What are the various facilities provide to pedestrian in traffic?
- f. What are the various types of traffic markings commonly used?
- g. What do you understand by grade separated intersections?
- h. What do you understand by road safety audit?
- i. What are the benefits of ITS?
- j. What are the various needs and services for ITS user?

Section – B

(5 marks each)

- Q2. What is significance of road user characteristics in traffic engineering? Discuss briefly the various factors which affect the road user characteristics and their effects in traffic performance.
- Q3. Explain the origin and destination study. What are the various uses of O&D studies?
- Q4. With neat sketches show few typical patterns of un-channelized and channelized intersections. What are the advantages and limitations of un-channelized and channelized intersections?
- Q5. What changes to the ITS directive are proposed and why?
- Q6. Explain the Advanced Vehicle safety systems, Information Management in ITS.

Section – C

(10 marks each)

- Q7. What are the various types of parking facilities designed for the traffic needs? Compare the angle parking with parallel parking.
- Q8. Explain how the speed and delay studies are carried out. What are the various uses of speed and delay studies?
- Q9. With neat sketches show some of the important types of regulatory signs and mention the function of each